Survey & Manage

FISCAL YEAR 2003 ANNUAL STATUS REPORT









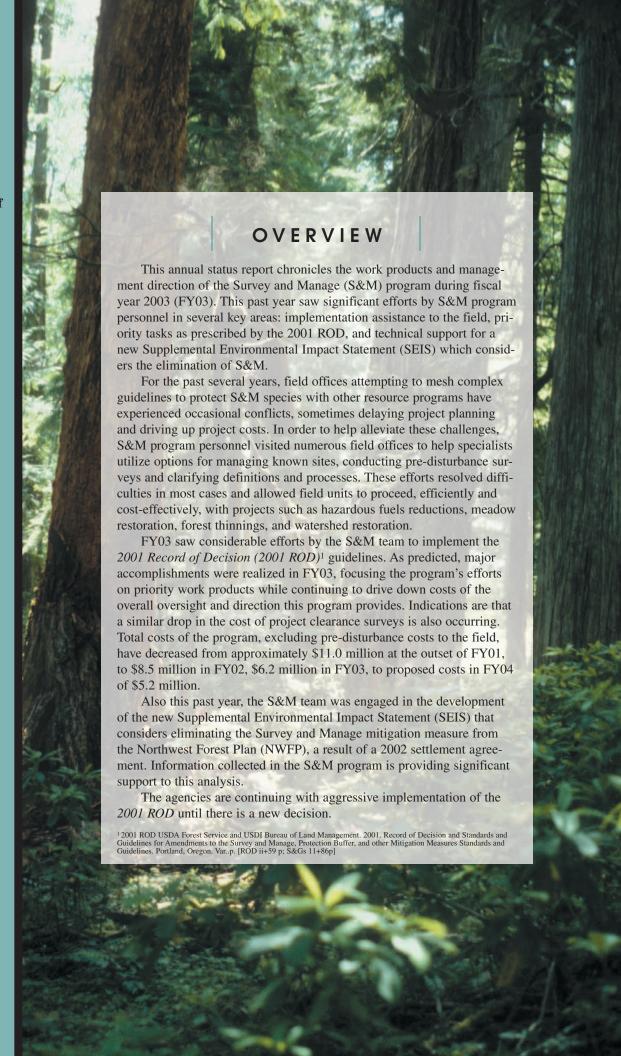
Survey and Manage species are a group of rare and uncommon species associated with old growth forests protected under the Northwest Forest Plan. This group includes 304 species of mollusks, lichens, bryophytes, vascular plants, amphibians, fungi, the Oregon Red Tree Vole, the Great Gray Owl and four arthropod guilds.

Survey and Manage Website

www.or.blm.gov/ surveyandmanage

TABLE OF CONTENTS

Overview1
Background2
Information Management 2
Pre-disturbance Surveys 3
Strategic Surveys4-5
Annual Species Review5-6
Management Recommendations6
Implementation Monitoring7
Looking Forward8
Appendix One9
Appendix Two12
Contacts & Website 15



BACKGROUND

In the 1994 Record of Decision (1994 ROD)², the Bureau of Land Management and Forest Service adopted standards and guidelines (S&Gs) for the management of habitat for late-successional and old-growth forest-related species within the range of the northern spotted owl.

One of the mitigation measures adopted under the 1994 ROD, called "Survey and Manage" (S&M), addressed concerns for the persistence of rare and little-known species by providing for management of known sites, site-specific pre-habitat-disturbing surveys, and/or landscape scale surveys for about 400 rare and/or uncommon species.

As we discovered more about the occurrences and biological needs of these species, primarily through surveys, the agencies decided the original S&Gs needed improvement. This led to the preparation of the S&M 2001 ROD which was signed by the Secretaries of Interior and Agriculture in January 2001.

This decision removed 72 species from S&M in all or part of their ranges, established an Annual Species Review process to evaluate new information about taxa and make appropriate changes to their management, and required strategic surveys across the landscape for all species.

It also created six management categories for 346 species, based on the ability to detect them in surveys, and whether they are rare or uncommon.

Although the S&Gs were revised, the 2001ROD maintains the same likelihood of persistence for S&M species as the 1994 ROD, while allowing more management flexibility to provide for the need to accomplish field projects.

In 2001-02, the S&M provisions were the subject of a lawsuit brought by Douglas Timber Operators, the American Forest Resources Council and the Association of O&C Counties against the Secretaries of Interior and Agriculture.

In response to that lawsuit, the agencies entered a settlement agreement in late September 2002, to prepare a Supplemental Environmental Impact Statement (SEIS) that would consider eliminating the S&M mitigation measure.

This action set in motion a concentrated effort involving many agency people, including the S&M staff. The new Record of Decision (ROD) is scheduled for release in early 2004. That decision may

lead to a change in management for S&M species.

INFORMATION MANAGEMENT

Since 1994, the Forest Service and the BLM gathered location data for S&M species from herbaria, museums, and National Forest and BLM District staffs. This information was compiled into the *Known Sites Database*, which has since been replaced by the *Interagency Species Management System (ISMS)*, developed over several years and deployed in the field in March of 2000.

The ISMS database holds information on S&M species and their habitats, plus information about where surveys have occurred. Included in this database are sites discovered while surveying prior to proposed land management activities (such as timber sales and recreation trails), and those sites discovered during strategic surveys.

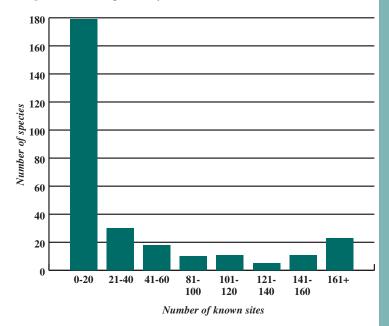
The ISMS team at Portland, Oregon, is responsible for maintaining the ISMS application, providing training and support to the ISMS users, and developing upgrades. A new ISMS version 1.15 was released to include information about fire presuppression activities where S&M sites occur.

User support included several introductory training sessions attended by new FS and BLM ISMS users, daily help desk support and completion of the new advanced query capability.

The team also began identifying requirements for overhaul and upgrade of the ISMS database to take advantage of more modern technology and more focused informational needs. This process will culminate in December 2003 with a decision on how to meet the needs of Survey and Manage and/or the needs of the Special Status Species program.

The ISMS database provides information useful in understanding the rarity of S&M species. Of the current 304 S&M species, 288 have known sites within the NWFP area: 179 of those are known from 20 sites or less. **Figure 1** depicts the number of Survey and Manage species known from 0-20 sites, 21-40 sites, 41-60 sites and so on.

Figure 1 S&M Species by Number of Known Sites



² 1994 ROD USDA Forest Service and USDI Bureau of Land Management. 1994b. Record of Decision for Amendments to Forest Service and Bureau of Land Management Planning Documents Within the Range of the Northern Spotted Owl, Standards and Guidelines for Management of Habitat for Late-successional and Old-Growth Forest Related Species within the Range of the Northern Spotted Owl. Portland, Oregon. Var.p. INorthwest Forest Planl

PRE-DISTURBANCE SURVEYS

Pre-disturbance surveys are "clearance surveys" conducted for projects that may disturb species habitats. They are conducted prior to signing National Environmental Policy Act (NEPA)

decisions and have the goal of reducing the potential loss of sites by searching specified habitats.

Pre-disturbance surveys utilize a variety of survey methods to focus on priority habitats, habitat features, or entire project areas. These surveys must adhere to protocols developed for individual species.

There are two types of pre-disturbance surveys based on individual species characteristics. *Practical surveys* are developed for species that have characteristics making them likely to be located with a reasonable survey effort. Practical surveys were limited to 64 species in FY03.

Equivalent-effort surveys are developed for species that have characteristics, such as extremely small size or irregular life cycles, making identification during pre-disturbance surveys less likely. Equivalent-effort surveys are currently limited to 5 species of mollusks.

Information collected during pre-disturbance surveys includes detailed location and habitat data. These data, along with information collected from strategic surveys, are used to develop or revise management recommendations, revise survey

protocols and complete the Annual Species Review.

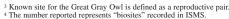
According to the Interagency Species Management System (ISMS) database, field offices

According to the Interagency Species Management System (ISMS) database, field offices recorded surveys on 183,057 acres in 2003. Administrative units also recorded a total of 2733 known sites in the ISMS database in 2003 for 135 different taxa.

Table 1 displays the total number of known sites recorded in 2003 and entered into the ISMS database for both the Forest Service and Bureau of Land Management.



Table 1.	Known Sites Recorded in FY2003			
Taxa Group	Forest Service		BLM	
	R5	R6	CA	OR/WA
Fungi	1	105	37	97
Lichens	26	296	5	136
Bryophytes	20	122	2	18
Vascular Plants	20	94	2	40
Mollusks	330	696	0	165
Amphibians	13	13	0	0
Great Gray Owl ³	0	5	0	0
Red Tree Vole ⁴	7	228	0	255
Total	417	1559	46	711





Survey protocols were developed for seven species of lichens this past year. Four of the species (*Bryoria pseudocapillaris, Bryoria spiralifera, Dendriscocaulon intricatulum*, and *Nephroma occultum*) were added to Category A as a result of the 2001 Annual Species Review. Pre-disturbance surveys were not previously required for these species and survey protocols had not been developed prior to this year.

The remaining three species (*Hypogymnia duplicata, Lobaria linita* var. *tenuoir*, and *Pseudocyphellaria rainierensis*) required pre-disturbance surveys prior to this year under a survey protocol released on March 12, 1998. The protocol amendment released this year updated species information with data that had accumulated since 1998, and brought all pre-disturbance survey lichens under the same protocol requirements.

The lichen survey protocol amendment, dated September 22, 2003, may be accessed via the internet at www.or.blm.gov/surveyandmanage.



STRATEGIC SURVEYS

What are Strategic Surveys?

Strategic surveys gather information on S&M species that relate to the information needs and the management objectives for each species. Strategic surveys can help answer the following questions:

- Is the species rare or uncommon?
- Is there a concern for species persistence?
- Is the species closely associated with latesuccessional/old-growth habitats?
- Do the reserve land use allocations and other standard and guidelines provide for a reasonable assurance for species persistence?

These surveys range in scale from small-scale, site-specific surveys that collect habitat data at known species locations, to large-scale multiple species surveys that collect information about species distribution and abundance.

Strategic surveys are prioritized based on three factors: **Biological Factors** – these address the inherent aspects of species biology and how these factors relate to persistence concerns and/or management questions.

Managerial Factors – Information may contribute to increased management efficiency; such as putting species in the proper management category (or removal from the list), increasing efficiency of pre-disturbance surveys, or providing flexibility in species management.

Operational and Logistical Factors – Due to the large size of the Northwest Forest Plan (NWFP) area and the number of species, it is not possible to simultaneously survey for all species across the planning area, so logistical considerations are evaluated to increase efficiency.

Strategic Survey Accomplishments in Fiscal Year 2003

Strategic survey accomplishments in FY03 continue to collect information about S&M species and their habitats to be used in the Annual Species Review Process, and development of management recommendations. Following is a brief summary of what was accomplished by each survey type.

CVS/FIA Random Grid Survey – This survey began in 2000 in three pilot areas (Gifford Pinchot, Umpqua, and Siuslaw National Forests) on 300 randomly selected CVS plots. In 2001, surveys were initiated throughout the NWFP area on an additional 300 CVS plots in Oregon and 150 FIA plots in California. Field surveys are now complete, and specimen identification, statistical analysis and bio-interpretation are in progress. Information collected from this survey will be used in the 2004 Annual Species Review.

At this time a total of 113 current S&M species have been detected at least once from this survey. These detections will be used to estimate the species abundance across the NWFP area and test their association with late-successional/old-growth habitats and reserve land use allocations.

Approximately 42% of the CVS/FIA plots have had detections of one or more S&M species. Plots in late-successional/old-growth habitats (stand age greater than 80 years old) had detections on 45% of the plots while those in non-late-successional habitats had detections on 33% of the plots. Eight S&M species was the maximum number of S&M species detected on one plot.

A survey of randomly selected plots in the southern Washington Cascades occurred for Van Dyke salamander to determine population abundances and collect habitat data. This information potentially will be used to modify this species'

pre-disturbance survey protocol.

Known Site Surveys – A total of 37 known site surveys were completed for 16 S&M species. These surveys collect detailed microsite and vegetation data that can be used to focus strategic surveys and develop potential habitat maps. Information from these surveys is entered into the Known Site Survey Module in ISMS.

Purposive Surveys – Purposive surveys are used to locate additional sites of species or to attempt to re-locate historic locations. In 2003, 10,536 acres were surveyed purposively for botanical species (bryophytes, lichens, and vascular plants), mollusks and fungi. A total of 137 new lichen sites (10 species), 48 new mollusk sites (5 species), 20 new bryophyte sites (4 species), and 14 new fungi locations (4 species) were found.

Habitat Modeling – Several modeling efforts for S&M species occurred in 2003. These include expanding the Potential Natural Vegetation (PNV) modeling for lichens, bryophytes, vascular plants, mollusks, fungi and amphibians into Oregon and northern California.

Species Specific Surveys – These surveys are for those species or species groups where the previous survey types may not be effective at gathering the specific information needs or those that require different survey methodologies. These survey efforts are described below:

Amphibians – Strategic survey efforts continued for Larch Mountain, Van Dyke and Siskiyou salamanders. Species range and habitat association maps are currently being developed for both Larch Mountain and Van Dyke salamanders. Surveys for Siskiyou salamanders to assess distribution, abundance, and habitat on reserve land use allocations occurred throughout the species range. Once completed, these surveys should assist managers in refining pre-disturbance survey protocols.

Red Tree Vole – Survey work for red tree voles included continuing a radio telemetry study looking at the daily and seasonal movements of individual red tree voles that can be used to estimate the species home range.

Coastal Lichens – This survey, data analysis, and final reports were completed in 2003. This survey was designed to perform an extensive and systematic search for 16 lichen species (13 S&M species) known only from the immediate coast to evaluate their association with late-successional/old-growth forests and rarity within the NWFP area.

Aquatic Lichens – The objective of this study was to collect distribution, and habitat information for two aquatic lichen species (*Dermatocarpon luridum* and *Leptogium rivale*). This NWFP survey involved a randomized approach to estimate abundance between reserve and non-reserve lands and collecting data on numerous habitat variables. Preliminary data analyses are ongoing and final reports are expected in 2004.

Specimen Identification – Approximately 9,000 known or suspected fungi, bryophyte, lichen and mollusk specimens were collected and have been identified, or are awaiting identification.

Strategic Survey Framework – This document, published as a Pacific Northwest Research Station General Technical Report, was completed in February 2003. It is accessible on the Northwest Forest Plan Survey and Manage website. The Strategic Survey Framework outlines a repeatable process for assessing information needs for S&M species, designing and implementing strategic surveys, and analyzing that information for use in the Annual Species

Photo courtesy of Nan Vance.



Review and adaptive management processes.

Strategic Survey Implementation Guide – The 2003 Strategic Survey Implementation Guide was approved and is also accessible on the Northwest Forest Plan Survey and Manage website. This document, updated annually, helps focus agency resources on the highest priority species information needs and helps ensure that the agencies comply with the strategic survey deadlines as described in the 2001 ROD standards and guidelines.

Currently the priorities of the strategic survey program are to complete the statistical analysis and bio-interpretation of the region-wide survey on randomly selected CVS/FIA plots, and complete other on-going survey efforts. Strategic surveys have been proposed for species lacking previous surveys (great gray owl and arthropods), for species with new information needs, and for those rare species that must have strategic surveys completed by a specific deadline.

ANNUAL SPECIES REVIEW

Results of the FY02 Annual Species Review (ASR) were released to the public in March 2003, which qualifies them as accomplishments for FY03. They are found in this report. Agency approval of the FY03 Annual Species Review results is pending. Those results are expected later this spring, and they will be published in the FY04 Annual Status Report.

Overview

The Annual Species Review is an annual adaptive management process that evaluates new information and ensures appropriate levels of management for S&M species. The 2001 ROD standards and guidelines (S&Gs) pages 14-19 provide the guidance for this process which is comprised of four phases.

A decision by the agency leads for the FS and BLM in compliance with the RIEC finding for implementation by the administrative units throughout the Northwest Forest Plan (NWFP) area closes the process.

Through the ASR process species can:

- be removed from, or added to, the S&M program,
- be changed from one management category to another, or
- have a new biological range validated.

A species can be removed from S&M if the species or its potential habitat does not occur within the NWFP area; the species is not found to be associated with late-successional or old-growth forest; and/or the reserve system or other S&Gs of the NWFP provide for a reasonable assurance of persistence of the species. Species proposed for addition to S&M must be taxonomic entities published in appropriate peer-reviewed journals accepted by the scien-

tific community. They must also occur or have potential habitat within the NWFP area, be associated with late-successional or old-growth forest, and not have a reasonable assurance of per-

sistence provided by the reserve system or by the implementation of other S&Gs of the NWFP.



Summary of FY 2002 Annual Species Review Results

All 313 S&M species were evaluated in FY2002. Eight species were removed in all or part of their ranges from S&M requirements. The species were removed because 1) the reserve system and other S&Gs of the NWFP provide for a reasonable assurance of species persistence, or 2) they were not closely associated with late-successional or old growth forest. In addition,

- 1 S&M species no longer requires pre-disturbance surveys
- 1 S&M species that did not require pre-disturbance surveys previously now requires them.
 - 1 S&M species no longer requires managing known sites.
- 304 species remain in Survey and Manage plus 4 arthropod guilds
- Approximately 1900 known sites were released from Survey and Manage requirements, but are still covered by other S&Gs of the NWFP.

ANNUAL SPECIES REVIEW

See **Table 1-1** in **Appendix One** *Species Included in Survey and Manage Standards and Guidelines and Category Assignment (March 2003)*, for the most recent listing of S&M species and their management categories (also accessible online at www.or.blm.gov/surveyandmanage/).

FY03 Annual Species Review

The 2003 Annual Species Review was initiated in January 2003, evaluating 304 species to determine if there was significant new

information available that would support further evaluation of the species. Eighteen species were elevated to the last phase of the process to determine if management changes were justified. Ranges were changed for an additional 20 species. The Bayesian belief network was used again this year to help identify an initial list of potential outcomes that were consistent with the information identified for each taxon and with the 2001 ROD standards and guidelines. It was modified in 2003 to include the uncommon criteria provided in the 2001 ROD standards and guidelines.

MANAGEMENT RECOMMENDATIONS

What are they?

Management Recommendations (MRs) are guidelines for managing S&M species on federal lands within the NWFP area. These guidelines establish specific goals and objectives for the species and general management policy for providing a reasonable assurance of species persistence at the known site-scale. The guidelines also describe species and their life history, characteristics, and habitat relations.

Under the provisions of the 2001 ROD, "Known Site MRs" have been developed, or are in development, for species considered to be rare (Category A, B and E species). A species is determined to be rare when information indicates that a species may have: a limited distribution, a low number of known sites or individuals per site, restricted distribution patterns relative to their range or potential habitat, highly specialized habitat requirements, or a narrow ecological amplitude. For these rare species, all known sites are likely to be necessary for a reasonable assurance of persistence. An exception process, reviewed by the Regional Ecosystem Office (REO), may on occasion identify certain sites as not needed for a reasonable assurance of species persistence in order to allow for greater management flexibility.

Under the provisions of the 2001 ROD, "High Priority Site MRs" are in development for species considered to be uncommon (Category C and D species). A species is determined to be uncommon when information indicates that a species may have: a more widespread distribution, a higher numbers of known sites, less restricted distribution patterns relative to their range or potential habitat, or moderate-to-broad ecological amplitude. For uncommon species, not all known sites are likely to be necessary for a reasonable assurance of persistence. To allow for greater management flexibility a 4-step process for the identification of non-High Priority Sites is available to allow administrative units to identify, on a case-by-case basis, certain sites not needed for a reasonable assurance of species persistence, and release them for other management. This 4-step process was used again in FY03, particularly for the red tree vole.

As reported in the FY02 Annual Status Report, MRs were developed to allow fuels-reduction treatments (as directed by the National Fire Plan) to help reduce the risk of large-scale or high intensity fires around identified communities at risk. This year, these MRs have been expanded beyond the forest areas around communities at risk, to other areas covered by the NWFP. These MRs are currently awaiting final review and signature.

New and Revised Management Recommendations

In the 1994 ROD, S&M species were organized into one of four categories regarding the type of management and surveys required. The 2001 ROD created six management categories for these species, based on the ability to find them during surveys, and whether they are considered rare or uncommon. In addition the 2001 ROD created the Annual Species Review process which provides for the movement of species between management categories, or their removal from (or addition to) S&M provisions. Due to these changes, many species require the creation or revision of MRs dependent on their current management category. Species in Category F are exempt from the MR requirement because they are uncommon and information is insufficient to determine specific criteria for persistence or their association with late-successional and old-growth forest.

Known Site MRs are being written or revised for 60 + lichen species. Currently there are 22 species with High Priority Site MRs with either drafts in review or under development.

Table 2-1 in Appendix Two displays the list of species that were without governing MRs when the 2001 ROD was implemented. The MRs of species not listed in Table 2-1 were completed prior to the 2001 ROD and continue to be in effect.

IMPLEMENTATION MONITORING





The purpose of regional implementation monitoring is to determine and document to what extent agency field units have complied with the 1994 ROD standards and guidelines. For Survey and Manage specifically, results of implementation monitoring reviews provide feedback on how well field units have applied provisions contained in the S&M 2001 ROD, and allow us to evaluate our progress toward meeting species persistence objectives.

Using a standard questionnaire format for both project-level and watershed activities, review teams visit randomly selected field units, and discuss whether specific standards and guidelines have been applied to individual projects (e.g. have required pre-disturbance surveys been done) and at the watershed scale (e.g. to what extent has watershed analysis been used).

Fiscal Year 2003 (FY03) reviews were conducted on 21 watersheds and 23 projects (15 Late Successional Reserve density management projects, 7 prescribed fire projects and 1 locatable mineral/ mining project) randomly selected throughout the Northwest Forest Plan area. Twenty-four projects were originally planned for monitoring reviews, but one project in the Deschutes Province was not monitored due to wildfire. Of the 23 projects monitored, two were on Bureau of Land Management lands and 21 were on Forest Service land.

Results of FY03 implementation monitoring are not available at this time. Data are currently being compiled and the 2003 Implementation Monitoring Report is expected for release in the near future. Monitoring information is accessible online at www.reo.gov/monitoring/.

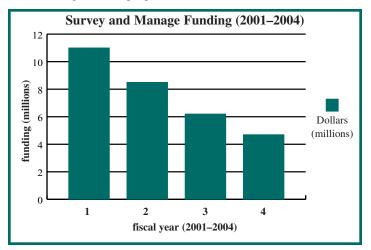




LOOKING FORWARD

A new decision stemming from the SEIS effort currently underway may lead to a change in management for those species managed under S&M. But in the meantime, the Survey and Manage program will continue focusing on implementation of the 2001 ROD.

We will continue to drive down costs of the overall oversight and direction this program provides. The FY2000 SEIS predicted short-term (1-5 years) costs would be \$9,800,000 (including overhead). The following table is a rough comparison of program costs, excluding pre-disturbance costs to the field, from FY01 through FY04 (proposed).



Indications are that a similar drop in the cost of project clearance surveys is also occurring. Reduced cost and reduced impacts of S&M requirements on other programs will continue in FY04 as new information supports adaptive management decision-making.

Major parts of our strategic surveys are coming to completion. Some use was made of raw data in FY03 but the statistical and biological analyses taking place in FY03 will provide critical information in the decision processes in FY04.

It is exciting to see the results of surveys being utilized in decisions on the management of S&M species, the analysis of the future of the management of Survey and Manage species, and by

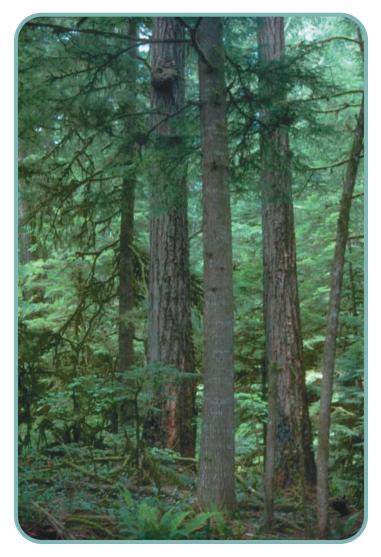


State agencies when considering these same species for listing under their individual rare species programs. I expect this trend will expand as more agencies discover the wealth of information that is now available to them.

While new information has resulted in the change of management for many species it is still evident that the majority of the species are in fact rare. We will continue to learn more about these species in order to provide support for decisions to assign appropriate protections, insuring a reasonable assurance of persistence.

We will begin to exhaust our information needs for specific species in FY04. The S&M strategy for these species will come to closure, as expected, and we can say we're "done". Despite the potential to add species, we should continue to see reduced costs and impacts before a leveling is experienced.

/s/ Terry Brumley Survey and Manage Program Manager



APPENDIX ONE

Table 1-1 Results of FY02 Annual Species Review

Species Included in Survey and Manage Standards and Guidelines and Category Assignment (March 2003)

 $\it Note$: Where taxon has more than one name indicated, first name is current accepted name, second one (in parentheses) is name used in NFP (Table C-3).

TAXA GROUP Species	Category
FUNGI	

A conthanhyolium forlowiii (Aloura discus forlowii)	D
Acanthophysium farlowii (Aleurodiscus farlowii)	В
Albatrellus avellaneus	В
Albatrellus caeruleoporus Albatrellus ellisii	<u>В</u> В
	В
Albatrellus flettii, In Washington and California Alpova alexsmithii	В
Alpova olivaceotinctus	В
Arcangeliella camphorata	В
(Arcangeliella sp. nov. #Trappe 12382;	Ь
Arcangeliella sp. nov. #Trappe 12359)	
Arcangeliella crassa	В
Arcangeliella lactarioides	В
Asterophora lycoperdoides	В
Asterophora parasitica	В
Baeospora myriadophylla	В
Balsamia nigrens (Balsamia nigra)	В
Boletus haematinus	В
Boletus pulcherrimus	В
Bondarzewia mesenterica (Bondarzewia montana),	B
In Washington and California	2
Bridgeoporus nobilissimus (Oxyporus nobilissimus)	A
Cantharellus subalbidus, In Washington and California	D
Catathelasma ventricosa	B
Chalciporus piperatus (Boletus piperatus)	D
Chamonixia caespitosa	B
(Chamonixia pacifica sp. nov. #Trappe #12768)	Ь
Choiromyces alveolatus	В
Choiromyces aiveolatus Choiromyces venosus	В
	В
Chroogomphus loculatus Chrysomphalina grossula	В
Chuariadalahus liaula	В
Clavariadelphus ligula Clavariadelphus occidentalis (Clavariadelphus pistillaris)	В
Clavariadelphus sachalinensis	В
	В
Clavariadelphus subfastigiatus	<u>B</u>
Clavariadelphus truncatus (syn. Clavariadelphus borealis)	
Clavulina castanopes v. lignicola (Clavulina ornatipes) Clitocybe senilis	<u>В</u> В
	В
Clitocybe subditopoda Collybia bakerensis	F F
Collybia racemosa	В
	В
Cordyceps ophioglossoides	
Cortinarius barlowensis (syn. Cortinarius azureus)	В
Cortinarius boulderensis	В
Cortinarius cyanites	В
Cortinarius depauperatus (Cortinarius spilomeus)	B
Cortinarius magnivelatus	B
Cortinarius olympianus	В
Cortinarius speciosissimus (Cortinarius rainierensis)	В
Cortinarius tabularis	В
Cortinarius umidicola (Cortinarius canabarba)	В
Cortinarius valgus	В
Cortinarius variipes	В
Cortinarius verrucisporus	В
Cortinarius wiebeae	В
Craterellus tubaeformis (syn. Cantharellus tubaeformis),	D
In Washington and California	
	В
	В
Cudonia monticola Cyphellostereum laeve	
Cyphellostereum laeve	В
	B B
Cyphellostereum laeve Dermocybe humboldtensis	
Cyphellostereum laeve Dermocybe humbolatensis Destuntzia fusca Destuntzia rubra	B B
Cyphellostereum laeve Dermocybe humboldtensis Destuntzia fusca Destuntzia rubra Dichostereum boreale (Dichostereum granulosum)	B B B
Cyphellostereum laeve Dermocybe humbolatensis Destuntzia fusca Destuntzia rubra Dichostereum boreale (Dichostereum granulosum) Elaphomyces anthracinus	B B B
Cyphellostereum laeve Dermocybe humboldtensis Destuntzia fusca Destuntzia rubra Dichostereum boreale (Dichostereum granulosum)	B B B

TAXA GROUP	
Species	Category
FUNGI (continued)	

Entoloma nitidum (Rhodocybe nitida) Fayodio bisphoerigra (Fayoda gracilipes) B Fayodio bisphoerigra (Fayoda gracilipes) B (Alpova aurantiaca (Alpova sp. nov. # Trappe 1966) B (Alpova aurantiaca) Galerina dithisoniana B Galerina dithisoniana B Galerina heterocystis E Galerina sphagnicola E Gastroboletus imbeilus B Gastroboletus subor Gastroboletus subolor Gastrosulius amaranthi (Gastroboletus sp. nov. #Trappe 2897; Gastrosulius amaranthi (Gastroboletus sp. nov. #Trappe 9608) E Gastrosulius umbrinus (Gastroboletus sp. nov. #Trappe 9608) E Gastrosulius umbrinus (Gastroboletus sp. nov. #Trappe 97516) B Gautieria angalicellaris B Goutieria otthii B Goutieria otthii B Gorphus bonarii B Gomphus bonarii B Gomphus bonarii B Gomphus kauffmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gomphus pun w#Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Martellia sp. nov. #Trappe 1090, 1706, 1710; B Gyrnniira californica B Hebelloma californica B Hebelloma californica B Hebelloma californica B Hydrotrya subnix (Hydrotrya sp. nov. #Trappe 1861) B Hydrotrya subnix (Hydrotrya sp. nov. #Trappe 7502) B Holeria adhaeras B Hydrotrya subnix balance B Hydrotrya subnix balance B Hydrotrya subnix balance B Hydrotrya subnix balance B Hydrotrya subnix bal		
Fayacia bisphaerigera (Fayacia gracilipes) Fevansia aurantiaca (Alpova sp. nov. # Trappe 1966) (Alpova aurantiaca (Alpova sp. nov. # Trappe 1966) Galerina carina B (Alpova aurantiaca) Galerina cerina B Galerina cerina B Galerina phapanjaciola E Gastroboletus imbellus Gastroboletus imbellus B Gastroboletus subcipinus B Gastroboletus subcipinus B Gastroboletus vividus (Gastroboletus sp. nov. #Trappe 2897; B Gastroboletus vividus (Gastroboletus sp. nov. #Trappe 9608) Gastroboletus vividus (Gastroboletus sp. nov. #Trappe 9608) B Gastroboletus sp. nov. #Trappe 7515) Gastroboletus sp. nov. #Trappe 7516) B Gastroboletus sp. nov. #Trappe 7516) B Gastroboletus vividus (Gastroboletus sp. nov. #Trappe 9608) B Gastroboletus vividus (Gastroboletus sp. nov. #Trappe 9608) B Gastroboletus sp. nov. #Trappe 7516) B Gastroboletus sp. nov. #Trappe 9608 B Gymnomyces sp. nov. #Trappe 9603 B Gymnomyces sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 9603 B Gymnomyces sp. nov. #Trappe 97455; Martellia sp. nov. #Trappe 97455; Martellia sp. nov. #Trappe 97455; Martellia sp. nov. #Trappe 97403 B Hebellor acistina aurantia coliifornia B Gymnomyces sp. nov. #Trappe 97403 B Hydrotyna subnix (Hydnotrya sp. nov. #Trappe 649) B Gymnomyces sp. nov. #Trappe 97403 B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 7502) B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 7502) B Hydrotyna subnix (Hydnotrya subnix sp. nov. #Trappe 7502) B Hydrotyna	Entoloma nitidum (Phodocybe nitida)	R
Fevansia aurantiaca (Alpova sp. nov. # Trappe 1966) (Alpova aurantiaca) Galerina atkinsoniana B Galerina atkinsoniana B Galerina teriorogrist E Galerina sphagnicola E Gastroboletus imbellus B Gastroboletus imbellus B Gastroboletus ruber Gastroboletus bubajohus Gastroboletus viviau (Gastroboletus sp. nov. #Trappe 2897; B Gastroboletus viviau (Gastroboletus sp. nov. #Trappe 2897; B Gastrosuillus amaranthii (Gastroboletus sp. nov. #Trappe 9608) E Gautieria atthii B Gomphus bonarii B Gomphus bonarii B Gomphus kaufirnanii E Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 9703, 5576; Gymnomyces sp. nov. #Trappe 9705; Gymnomyces sp. nov. #Trappe 9705; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Tr		
(Alpova aurantiaca) Galerina atkinsoniana B Galerina atkinsoniana B Galerina atkinsoniana B Galerina patreacystis E Galerina phateacystis E Galerina phaganicola E Gastroboletus imbeilus B B Gastroboletus ruber B B Gastroboletus subalpinus B		
Galerina atkinsoniana Galerina neterocystis Galerina heterocystis Galerina phagnicola Gastroboletus imbeillus B Gastroboletus subciplinus Gastroboletus subciplinus Gastroboletus subciplinus Gastroboletus vivialus (Gastroboletus sp. nov. #Trappe 2897; B Gastroboletus vivialus (Gastroboletus sp. nov. #Trappe 2897; B Gastroboletus vivialus (Gastroboletus sp. nov. #Trappe 2897; B Gastrosullius amaranthii (Gastrosullius sp. nov. #Trappe 7516) Gastrosullius amaranthii (Gastrosullius sp. nov. #Trappe 7516) Gastrosullius umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gastrosullius umbrinus (Gastroboletus sp. nov. #Trappe 7516) Gastrosullius umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gastrosullius umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gautieria magniceliaris B Gautieria othili B Gautieria othili B Gomphus calatum B Gomphus calatum B Gomphus kauffranii B Gomphus calatus Gomphus kauffranii B Gomphus pon ut #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Martellia sp. nov #Trappe 5052; B Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomita californica B Hebeloma californica B Hebeloma californica B Hebeloma californica B Hebeloma californica B Hydrotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydrotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydrotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydrotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydrotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydrotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydrotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydrotrya inordinata B Hydr		Ь
Galerina neterocystis Galerina sphagnicola Galerina sphagnicola Gastroboletus imbeilus Gastroboletus suber Gastroboletus suber Gastroboletus subolpinus B Gastroboletus subolpinus Gastroboletus subolpinus B Gastroboletus subolpinus Gastroboletus subolpinus B Gastroboletus subolpinus Gastroboletus sp. nov. #Trappe 2897; B Gastroboletus subolpinus Gastroboletus sp. nov. #Trappe 9608) E Gastrosulius amaranthii (Gastroboletus sp. nov. #Trappe 9608) B Gautieria orthii B Gautieria orthii B Gautieria orthii B Golmus radiatum B Gomphus bonarii B Gomphus cloardus Gomphus cloardus F Gomphus kouffmanii E Gomphus kouffmanii E Gymnomyces sp. nov. #Trappe 1690. 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 7845; Martellia sp. nov. #Trappe 5903) Myrenomyces nondistinca (Martellia sp. nov. #Trappe 1861) B Helvelia crassifunicata (Martellia sp. nov. #Trappe 1861) B Helvelia crassifunicata (Martellia sp. nov. #Trappe 1861) B Hydroptya inordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydroptya inordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydroptya wernalis B Hydroptya wernalis B Hygrophorus caeruleus Hygrophorus caeruleus B Hygrophorus caeruleus B Hygrophorus caeruleus B Hygrophorus caeruleus B Maccowanites chlorinosmus B Maccowanites chlorinosmus B Maccowanites orbinosmus B Maccowanites orbinosmus B Maccowanites orbinosmus B Maccowanites orbinosmus B Macromaina coloporus B Maccowanites orbinosmus B Maccowanites orbinosmus B Maccowanites orbinosmus B Maccowanites orbinosmus B Macromaina coloporus B Maccowanites orbinosmus B Macromaina coloporus B Ma		R
Galerina heterocystis Galerina sphagnicola Gastroboleitus imbelius B Gastroboleitus subber Gastroboleitus subbaipius B Gastroboleitus sublapiius Gastroboleitus subrialius Gastroboleitus subrialius Gastroboleitus subrialius Gastroboleitus suprialius Gastroboleitus suprialius Gastrosullius Gastroboleitus sp. nov. #Trappe 2897; Gastrosullius amaranthii (Gastrosullius sp. nov. #Trappe 9608) Gastrosullius umbrinus (Gastrosullius sp. nov. #Trappe 97516) B Gastrosullius umbrinus (Gastroboleitus sp. nov. #Trappe 7516) B Gastrosullius umbrinus (Gastroboleitus sp. nov. #Trappe 7516) B Gautieria otthii B Gautieria otthii B Gautieria otthii B Goundieria otthii B Gomphus clavatus Gomphus clavatus Gomphus clavatus F Gomphus kaufimanii B Gomphus kaufimanii B Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces nondistinata (Martellia sp. nov. #Trappe 649) B Gymnolius punctifolius, in California B Gymnita californica B Hebeloma olympianum (Hebeloma olympiana) B Helveila crassifunicata Hebeloma olympianum (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydrophorus careuleus Hygrophorus karstenii B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydn		
Galerina sphagnicola Gastrobolelus imbellus B Gastrobolelus ruber Gastrobolelus vubalpinus B Gastrobolelus subalpinus B Gastrobolelus subalpinus B Gastrobolelus subalpinus B Gastrobolelus vividus (Gastrobolelus sp. nov. #Trappe 2897; Gastrobolelus sp. nov. #Trappe 7515) Gastrosullius amaranthili (Gastrosullius p. nov. #Trappe 9608) E Gastrosullius umbrinus (Gastrobolelus sp. nov. #Trappe 7516) B Gastrosullius umbrinus (Gastrobolelus sp. nov. #Trappe 7516) B Gautieria atthil B Gautieria atthil B Gautieria atthil B Gelatinodiscus flavidus B Gomphus bonarii B Gomphus bonarii B Gomphus kaufimanii E Gomphus kaufimanii E Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 58052; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 5803) Gymnomyces nondistinata (Martellia sp. nov. #Trappe 649) B Gymnomyces nondistinata (Martellia sp. nov. #Trappe 649) B Gymnomyces nondistinata (Martellia sp. nov. #Trappe 649) B Helvella crassitunicata Helvella crassitunicata Helvella crassitunicata Helvella crassitunicata Helvella crassitunicata Hydrontrya subnix (Hydnotrya sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hydroporus vernalis Hygrophorus vernalis B Marcellia idahoensis B Marcellia idahoensis B Marcellia idahoensis B Marcellia idahoensis B Mocowanites pholinosmus B B Mocowanites pholinosmus B B Mocowanites onlorinosmus B B Mocowanites molis B Mocowanites onlorinosmus B B Mocowanites onlorinosmus B B Helvella didhoensis B Mocowanites onlorinosmus B B Helvella didhoensis B Mocowanites onlorinosmus B B Helvella didhoensis B Mocowanites onlorinosmus B B Mocowanites onlorinosmus B B Helvella didhoensis B B Helvella		
Gastrobolefus inbellus Gastrobolefus subalpinus B Gastrobolefus subalpinus Gastrobolefus subalpinus Gastrobolefus subalpinus Gastrobolefus subalpinus Gastrobolefus subalpinus Gastrobolefus sp. nov. #Trappe 7515) Gastrosullius amaranthii (Gastrobolefus sp. nov. #Trappe 9608) Gastrosullius amaranthii (Gastrosullius sp. nov. #Trappe 7516) B Gastrosullius umbrinus (Gastrobolefus sp. nov. #Trappe 7516) B Gautieria magnicellaris Gautieria otthii B Gautieria otthii B Gautieria otthii B Gomphus bonarii B Gomphus bonarii B Gomphus kaufimanii E Gomphus kaufimanii E Gomphus kaufimanii E Gomphus clavatus Gomphus kaufimanii E Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymonitra californica B Hebelora olympianum (Hebeloma olympiana) B Hebelora olympianum (Hebeloma olympiana) B Helvellia crassifunicata B Helvella crassifunicata B Hydnotrya subnix (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hygrophorus caeruleus B Hygrophorus karstenii	,	
Gastroboletus subajnius Gastroboletus subajnius B Gastroboletus Virbinatus B Gastroboletus Widus (Gastroboletus sp. nov. #Trappe 2897; Gastroboletus sp. nov. #Trappe 7515) Gastrosullius amaranthii (Gastrosullius sp. nov. #Trappe 9608) E Gastrosullius amaranthii (Gastrosullius sp. nov. #Trappe 7516) B Gastrosullius ambrinus (Gastroboletus sp. nov. #Trappe 7516) B Gelatinooliscus flavidus Gelomus radiatum B Gelomus radiatum B Geomphus bonarii B Gomphus bonarii B Gomphus kaustrinanii E Gomphus kaustrinanii E Gomphus kaustrinanii E Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 1710; Martellia sp. nov.		
Gastroboletus utrbinatus Gastroboletus tribinatus Gastroboletus vividus (Gastroboletus sp. nov. #Trappe 2897; Gastroboletus vividus (Gastroboletus sp. nov. #Trappe 9608) Gastroboletus sp. nov. #Trappe 7515) Gastrosulilus amaranthii (Gastrosulilus sp. nov. #Trappe 7516) B Gastrosulilus umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gautieria magnicellaris B Gautieria (Gastrosulilus sp. nov. #Trappe 7516) B Gautieria (Ithii B Gelatinodiscus flovidus Gelatinodiscus flovidus Giomus radiatum B Gomphus bonarii B Gomphus bonarii B Gomphus bonarii B Gomphus kauffmanii E Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 311; Martellia rasitrinicata B Helvella crassitunicata B He		
Gastroboletus turbinatus Gastroboletus vivilus (Gastroboletus sp. nov. #Trappe 2897; Gastrosulilus amaranthii (Gastroboletus sp. nov. #Trappe 9608) Gastrosulilus amaranthii (Gastroboletus sp. nov. #Trappe 7516) Gastrosulilus umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gautieria orthii B Gautieria orthii B Gautieria orthii B Gelatinodiscus flavidus Giornus radiatum B Gomphus bonarii B Gomphus bonarii B Gomphus clavatus F Gomphus kauffmanii E (ymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 1703, 5576; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5903) Gymnomyces sp. nov. #Trappe 5903) Gymnomyces onodistinata (Martellia sp. nov. #Trappe 649) B Gymnoplius punctifolius in California B Helvelia crasifunicata Helvelia crasifunicata Helvelia crasifunicata Helvelia crasifunicata Helvelia crasifunicata Helvelia crasifunicata Hydnotrya subnik (Hydnotrya sp. nov. #Trappe 1861) B Hydropya marginelius (Mycena marginelia) B Hygrophorus caeruleus Hygrophorus karstenii Hygrophorus karstenii B Nacowanites iymanensis B Macowanites iymanensis B Macowanites iymanensis B Macowanites iymanensis B Nacowanites iyman		
Gastroboletus wildus (Gastroboletus sp. nov. #Trappe 2897; Gastroboletus sp. nov. #Trappe 7515) Gastrosullius umbrinus (Gastroboletus sp. nov. #Trappe 9608) E Gastrosullius umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gautieria magnicellaris Gautieria orthii B Gautieria orthii B Gelatinociscus flavidus Gelatinociscus flavidus Gelatinociscus flavidus F Gomphus bonarii B Gomphus bonarii B Gomphus bonarii B Gomphus bonarii B Gomphus clavatus F Gomphus kauffmanii E E Gymnomyces abletis (Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Martellia sp. nov. #Trappe 5903) Gymnomyces nodistincta (Martellia sp. nov. #Trappe 649) B Gymopilus punctificius, in California B Hebeloma olympianum (Hebeloma olympiana) B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata B Helvella crassitunicata Helvella crassitunicata Helvella sp. nov. #Trappe 1861) B Hydnotrya subnix (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hydrophorus caeruleus B B Hygrophorus vernalis B Hygrophorus vernalis B B Hygrophorus vernalis B Macowanites chlorinosmus B B Macowanites oliorinosmus B B Macowanites oliorinosmus B Macowanites oliorinosmus B Macowanites polianinosmus B Macotellia fragrans B Macotellia polianina polianina polianina polianina polianina polianina poli	'	
Gastroboletus sp. nov. #Trappe 7515) Gastrosuillus amaranthii (Gastroboletus sp. nov. #Trappe 9608) E Gastrosuillus umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gautieria magnicellaris Gautieria drothii B B Gelatinodiscus flavidus B Giomus radicatum B B Genphus clavatus Gomphus bonarii B Gomphus clavatus Gomphus kouffmanii Geymnomyces abietis (Gymnomyces obietis (Gymnomyces obietis (Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 7545; Martelila sp. nov. #Trappe 311; Myanotrya subnix (Hydnotrya sp. nov. #Trappe 1861) B Hydrobrya subnix (Hydnotrya sp. nov. #Trappe 1861) B Hydrophorus vernalis Hydrophorus vernalis Hygrophorus vernalis Hygrophorus vernalis B Hygrophorus vernalis B Hygrophorus vernalis B Hygrophorus vernalis B Hygrophorus specantiles B Hudrowanites chlorinosmus B Macowanites hymanensis B Macowanites chlorinosmus B Macowanites specantiles B Hydrophorus vernalis Hycena querinostisi D D Hydrophorus vernalis Nycena querinostisi B Noclentinus dadaerens B Noclen		
Gastrosullius amprinus (Gastrabullius sp. nov. #Trappe 9608) E Gastrosullius umbrinus (Gastraboletus sp. nov. #Trappe 7516) B Gautieria magnicellaris Gautieria otthii B Gelatinodiscus flavidus B Glomus radiatum B Gomphus bonarii B Gomphus bonarii E Gomphus kauffmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gymnomyces abietis (Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 5011; Martellia sp. nov. #Trappe 5031] Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilus punctifolius, in California B Gyromitra californica B Helvella elastica Helvella elastica Helvella elastica Hydropus marginellus (Hydnotrya sp. nov. #Trappe 1861) B Hydropus marginellus (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus caeruleus B Hygrophorus caeruleus B Macowanites rhioniosmus B Macowanites rhioniosmus B Macowanites rhioniosmus B Macowanites maliis B Marasmius applanatipes B Martellia idahoensis B Mycena hudsoniana B Mycena tenax Mythicomyces corneipes B Noolentinus kauffmanii B Nivatogastrium nubigenum In entite range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea D Phaeocollybia disiliens Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia disiliens B Phaeocollybia fallax		В
Gastrosullius umbrinus (Gastroboletus sp. nov. #Trappe 7516) B Gautieria magnicellaris B Gautieria otthii B Gelatinodiscus flavidus B Glomus radiatum B Gomphus bonarii B Gomphus bonarii B Gomphus kauffmanii E Gomphus kauffmanii E Gymnomyces abietis (Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 51700; Martellia sp. nov. #Trappe 5180; Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomyces nondistincta (Galfornia B Gymnotia californica B Gymnita californica B Helvella crassitunicata Helvella alastincata B Helvella crassitunicata Helvella elastica B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hygrophorus caeruleus B Hygrophorus elita (Mycena marginella) B Hygrophorus caeruleus B B H		
Gautieria magnicellaris Gautieria magnicellaris Gautieria orthii Gelatinodiscus flavidus B Gelomus radiatum B Gomphus bonarii B Gomphus clavatus F Gomphus kouffmanii E Gymnomyces abietis (Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 7505; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 1801) Gymnopilus punctifolius, in California B Gymnopilus punctifolius, in California B Gymnopilus punctifolius, in California B Helvella crassitunicata Helvella crassitunicata Helvella crassitunicata Helvella elastica B Hydnotrya subnix (Hydnotrya sp. nov. #Trappe 1861) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrophorus caeruleus B Hygrophorus karstenii B Hygrophorus karstenii B Hygrophorus vernalis B Hygrophorus vernalis B Hygrophorus vernalis B Macowanites chlorinosmus B Macowanites chlorinosmus B Macowanites chlorinosmus B Macowanites chlorinosmus B Macowanites molis B Martellia fragrans Modrellia idahoensis B Modrellia idahoensis B Modrellia idahoensis B Noelentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea D Phaeocollybia disiliens B Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia fallax B Phaeocollybia fallax B Phaeocollybia disiliens B Phaeocollybia disiliens B Phaeocollybia disiliens B Phaeocollybia disiliens	Gastrosuillus amaranthii (Gastrosuillus sp. nov. #Trappe 9608)	
Gautieria otfhii B Gelatinodiscus flavidus B Gelatinodiscus flavidus B Gelomus radicatum B Gomphus bonarii B Gomphus bonarii B Gomphus kauffmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5452; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gyrnomitra californica B Gyromitra californica B Gyromitra californica B Helvella castincata (Hebeloma olympiana) B Helvella castincata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus careuleus B Hygrophorus karstenli B Hygrophorus ka		
Gelatinodiscus flavidus Glomus radicatum B Gomphus bonarii B Gomphus kauffmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gymnomyces p. nov. #Trappe 1690, 1706, 1710; Gymnomyces p. nov. #Trappe 4703, 5576; Gymnomyces p. nov. #Trappe 5052; Gymnomyces p. nov. #Trappe 5052; Gymnomyces p. nov. #Trappe 7545; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 5093) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilus punctifolius, in California B Gyromitra californica B Helvella crassitunicata B Helvella crassitunicata B Helvella elastica B Hydnotrya subnix (Hydnotrya sp. nov. #Trappe 1861) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus vernalis B Hygrophorus vernalis B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites chlorinosmus B Macowanites chlorinosmus B Martellia idahoensis Mycena hudsoniana B Mycena quinauttensis B Mycena quinauttensis B Mycena quinauttensis B Neolentinus kauffmanii B Nivalogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea B Octavianina macrospora B Octavianina macrospora B Octavianina papyracea B Otidea leporina D D Phaeocollybia disiliens B Phaeocollybia fallax Phaeocollybia fallax B Phaeocollybia disiliens B B Phaeocollybia fallax B B Phaeocollybia disiliens		
Gomphus bonarii B Gomphus bonarii B Gomphus clavatus F Gomphus kauffmanii E Gomphus kaufmanii E Gomphus kauffmanii E Gomphus kauffmanii E Gom		
Gomphus bonarii B Gomphus clavatus F Gomphus kauffmanii E Gomphus kauffmanii E Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5093) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Hebela crassitunicata B Hebela crassitunicata B Helvella crassitunicata B Helvella crassitunicata B Helvella crassitunicata B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787.792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrophorus karstenii B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster citrinus B Leucogaster microsporus B Macowanites ymanensis B Martellia fragrans B Martellia fragrans B Martellia fragrans B Mortellia dahoensis B Mycena quinaulitensis B Mycena quinaulitensis B B Mycena quinaulitensis B B Mycena quinaulitensis B B Mycena quinaulitensis B B Mortellia tenax B Mycena quinaulitensis B B Mortellia fragrans	Gelatinodiscus flavidus	В
Gomphus clavatus Gomphus kauffmani E Gomphus kauffmani E Gymnomyces abletis (Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 9502; Gymnomyces sp. nov. #Trappe 9502; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 5903] Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomyces nov. #Trappe 5903) B Hebielia crassitunicata B Hebielia crassitunicata B Helvella crassitunicata B Helvella crassitunicata B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya lonordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hydropohorus caeruleus Hygrophorus caeruleus B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus karstenii B Hygrophorus karstenii B Hygrophorus karstenii B Hygrophorus enalis B Hypomyces luteovirens B Leucogaster ricrosporus B Macowanites chlorinosmus B Macowanites shlorinosmus B Macowanites shlorinosmus B Macowanites shlorinosmus B Macowanites shlorinosmus B Marasmius applanatipes B Marasmius applanatipes B Marasmius applanatipes B Mortellia idahoensis B Mycena overholisi D Mycena quinaultensis B Mycena fenax B Mychan fenax B Nychan fenax B B B Nychan fenax B B B Nychan	Glomus radiatum	В
Gomphus kauffmanii E Gymnomyces abiefis (Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 582; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Helvella crassitunicata B Helvella crassitunicata B Helvella ciastica Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydroptya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydrophorus caeruleus Hygrophorus caeruleus B Hygrophorus caeruleus B Hygrophorus vernalis B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites chlorinosmus B Macowanites mollis B Martellia idahoensis B Martellia idahoensis B Mycena overholtsii D Mycena quinaultensis Mycena fenax B Nycena fenax B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea B Phaeocollybia californica B Phaeocollybia californica B Phaeocollybia disilliens B Phaeocollybia gagaria	Gomphus bonarii	В
Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 5145; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5003) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilus punctificlius, In California B Gymnopilus punctificlius, In California B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata Helvella crassitunicata Helvella elastica Helvella elastica Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus vernalis B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites imanensis B Macowanites mollis B Macowanites mollis B Martellia fragrans B Martellia idahoensis B Martellia idahoensis B Mycena hudsoniana Mycena overholtsii Mycena quinaultensis B Neolentinus adhaerens	Gomphus clavatus	F
(Gymnomyces sp. nov. #Trappe 1690, 1706, 1710; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 5903) Gymnomyces nov. #Trappe 5903) Gymnomyces nov. #Trappe 5903) Gymnomyces nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilius punctifolius, In California B Gyromitra californica B Helvella elastica Helvella elastica Helvella elastica Helvella elastica Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydrophorus vanginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus karstenii B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites iymanensis B Macowanites iymanensis B Marasmius applanatipes B Martellia Idahoensis B Mycena hudsoniana B Mycena quinauttensis B Mycena quinauttensis B Nycena quinauttensis B Nycena denax B Nycena denax B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea B Otidea smithii B Phaeocollybia dissiliens B Phaeocollybia dissiliens B Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia dissiliens B Phaeocollybia gregaria	Gomphus kauffmanii	E
Gymnomyces sp. nov. #Trappe 4703, 5576; Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomices nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomices nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnomyces allorincia B Hebella crassifunicata Hebela crassifunicata Helvella crassifunicata B Helvella crassifunicata Helvella crassifunicata B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites Iymanensis B Macowanites Iymanensis B Macowanites mollis Martellia idahoensis B Martellia fragrans B Mycena hudsoniana B Mycena dudsoniana B Myce		В
Gymnomyces sp. nov. #Trappe 5052; Gymnomyces sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilus punctifolius, In California B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassifunicata Helvella crassifunicata B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus ceruleus Hygrophorus vernalis B Hypomyces luteovirens Leucogaster citrinus Leucogaster microsporus Macowanites chlorinosmus B Macowanites winanensis B Macowanites winanensis B Marasmius applanatipes Martellia Idahoensis Mycena quinaultensis Mycena quinaultensis Mycena quinaultensis Neolentinus adhaerens B Neolentinus dahaerens B Neolentinus dahaerens B Neolentinus adrespora B Catavianina papyracea Otidea smithil Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia californica B Phaeocollybia gregaria		
Gymnomyces sp. nov. #Trappe 7545; Martellia sp. nov. #Trappe 1700; Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymomitra californica B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata B Helvella crassitunicata B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hypomyces luteovirens Leucogaster citrinus B Leucogaster microsporus Macowanites chlorinosmus B Macowanites mollis B Marasmius applanatipes B Martellia idahoensis Mycena overholtsii Nycena quinaultensis B Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea B Phaeocollybia californica B Phaeocollybia attenuata D Phaeocollybia disililens B Phaeocollybia disililens B Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia fagaria		
Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 3903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilus punctifoilus, In California B Gymnopilus punctifoilus, In California B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata Helvella crassitunicata Helvella elastica Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis Hypomyces luteovirens B Leucogaster ritrious Leucogaster microsporus Macowanites chlorinosmus Macowanites chlorinosmus B Macowanites mollis Maramilus applanatipes B Martellia idahoensis Mycena quinaultensis B Mycena overholtsii Mycena quinaultensis B Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea Otidea smithii Phaeocollybia coliifornica B Phaeocollybia attenuata D Phaeocollybia fallax Phaeocollybia fallax D Phaeocollybia fallax D Phaeocollybia fagaria		
Martellia sp. nov. #Trappe 311; Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilus punctifolius, In California B Hebeloma olympianum (Hebeloma olympiana) B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata Helvella elastica Helvella elastica Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) Hydrophorus caeruleus B Hygrophorus caeruleus B Hygrophorus vernalis Hygrophorus vernalis Hypomyces luteovirens B Leucogaster citrinus Leucogaster microsporus B Macowanites chlorinosmus Macowanites (Informassis B Macowanites mollis B Marasmius applanatipes B Martellia fragrans Mycena hudsoniana B Mycena quinaultensis Mycena quinaultensis B Neolentinus adhaerens B Neolentinus adhaerens B Neolentinus adhaerens B Neolentinus adhaerens B Octavianina papyracea B Otidea leporina Otidea smithi B Phaeocollybia californica B Phaeocollybia californica B Phaeocollybia gregaria B Phaeocollybia gregaria		
Martellia sp. nov. #Trappe 5903) Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) B Gymnopilus punctifolius, In California B Gymnopilus punctifolius, In California B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata B Helvella crassitunicata B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chorinosmus B Macowanites lymanensis B Marasmius applanatipes B Martellia fragrans B Martellia fragrans B Mycena hudsoniana B Mycena quinaulitensis B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina macrospora B Phaeocollybia dillary B Phaeocollybia californica B Phaeocollybia californica B Phaeocollybia dillary B Phaeocollybia gregaria B Phaeocollybia gregaria B Phaeocollybia gregaria		
Gymnomyces nondistincta (Martellia sp. nov. #Trappe 649) Bymnopilus punctificilius, in California Bymnopilus (Mebeloma olympiana) Bymnopilus (Mebeloma olympiana) Bymnopilus (Mycena marginalus) Bymnopilus (Mydnotrya sp. nov. #Trappe 787, 792) Bymnopilus (Mycena marginella) Bymnopilus (Mycena m		
Gymnopilus punctifolius, In California B Gyromitra californica B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata B Helvella elastica B Helvella elastica B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus vernalis B Hygrophorus vernalis B Hygrophorus vernalis B Hypromyces luteovirens B Leucogaster citrinus B Leucogaster incrosporus B Macowanites chlorinosmus B Macowanites lymanensis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Neolentinus kauffmani B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CAC Cascades Physiographic Provinces Octavianina macrospora B Phaeocollybia californica B Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia gregaria		
Gyromitra californica B Hebeloma olympiana B Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata B Helvella clastica B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites tymanensis B Macowanites mollis B Marasmius applanatipes B Martellia fragrans B Matellia idahoensis B Mycena overholtsii D Mycena quinaultensis B Mycena quinaultensis B Mycena duinaultensis B Mycena duinaultensis B Mycena quinaultensis B Mocolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Octavianina macrospora B Octavianina macrospora B Octavianina papyracea B Otidea smithii B Phaeocollybia attenuata D Phaeocollybia atlenuata D Phaeocollybia fallax D Phaeocollybia fallax D Phaeocollybia gregaria B Phaeocollybia gregaria B Phaeocollybia gregaria	, , ,	
Hebeloma olympianum (Hebeloma olympiana) B Helvella crassitunicata B Helvella clastica B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites Informanis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena overhottsii D Mycena quinaultensis B Neolentinus adhaerens B Neolentinus adhaerens B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina macrospora B Otidea leporina Ofidea smithii B Phaeocollybia californica B Phaeocollybia californica B Phaeocollybia dillax D Phaeocollybia gregaria B Phaeocollybia gregaria B Phaeocollybia gregaria		
Helvella crassitunicata B Helvella elastica B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hygrophorus vernalis B Hypomyces luteovirens B Leucagaster citrinus B Leucagaster microsporus B Macowanites chlorinosmus B Macowanites rymanensis B Macowanites mollis B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena quinaultensis B Mycena quinaultensis B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata B Phaeocollybia dissiliens B Phaeocollybia atgegaria B		
Helvella elastica B Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hydrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites lymanensis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina rappyracea B Otidea Ismithii B Phaeocollybia attenuata D Phaeocollybia atlenuata D Phaeocollybia gregaria B Phaeocollybia gregaria B Hydropus #Trappe 7502 B Phaeocollybia gregaria B Phaeocollybia gregaria		
Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792) B Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites lymanensis B Marasmius applanatipes B Martellia fragrans B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina macrospora B Octavianina macrospora B Octavianina macrospora B Octavianina papyracea B Octidea smithii B Phaeocollybia attenuata D Phaeocollybia dissiliens B Phaeocollybia gregaria B Phaeocollybia gregaria		В
Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861) B Hydropus marginellus (Mycena marginella) B Hydropus marginellus (Mycena marginella) B Hygrophorus caeruleus B Hygrophorus karstenii B Hygrophorus vernalis Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites lymanensis B Macowanites Imanensis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes Neolentinus dahaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina appyracea D Ctavianina papyracea B Otidea leporina Otidea smithii B Phaeocollybia attenuata Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia fallax D Phaeocollybia fallax D Phaeocollybia gregaria		В
Hydropus marginellus (Mycena marginella) Hygrophorus caeruleus Hygrophorus karstenii B Hygrophorus vernalis Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus Macowanites chlorinosmus Macowanites lymanensis B Macowanites mollis B Marasmius applanatipes Martellia fragrans B Mycena hudsoniana B Mycena overholtsii Mycena quinaultensis B Mycena quinaultensis B Neolentinus adhaerens Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea Otidea smithii B Phaeocollybia attenuata Phaeocollybia dissiliens B Phaeocollybia gregaria B B Phaeocollybia gregaria B B Phaeocollybia gregaria B B B B B B B B B B B B B	Hydnotrya inordinata (Hydnotrya sp. nov. #Trappe 787, 792)	В
Hygrophorus caeruleus Bygrophorus karstenii Bygrophorus vernalis Bygroph	Hydnotrya subnix (Hydnotrya subnix sp. nov. #Trappe 1861)	В
Hygrophorus karstenii B Hygrophorus vernalis B Hypomyces luteovirens B Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites hymanensis B Macowanites mollis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena quinaultensis B Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina apapyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia fallax D Phaeocollybia fallax D Phaeocollybia gregaria B B	Hydropus marginellus (Mycena marginella)	В
Hygrophorus vernalis Hypomyces luteovirens Leucogaster citrinus B Leucogaster microsporus Macowanites chlorinosmus Macowanites lymanensis Macowanites mollis B Marasmius applanatipes Martellia fragrans Martellia idahoensis Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Otidea Ieporina Otidea smithii B Phaeocollybia attenuata Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia gregaria	Hygrophorus caeruleus	В
Hypomyces luteovirens Leucogaster citrinus Leucogaster microsporus Macowanites chlorinosmus Macowanites lymanensis Macowanites mollis Marasmius applanatipes Martellia fragrans Martellia idahoensis Mycena hudsoniana Mycena overholtsii D Mycena quinaultensis B Mycha quinaultensis B Neolentinus adhaerens B Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina papyracea Otidea smithii B Phaeocollybia attenuata Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia gregaria	Hygrophorus karstenii	В
Hypomyces luteovirens Leucogaster citrinus Leucogaster microsporus B Macowanites chlorinosmus B Macowanites lymanensis B Macowanites mollis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycha a quinaultensis B Neolentinus adhaerens B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina papyracea Otidea smithii B Phaeocollybia attenuata Phaeocollybia caliifornica B Phaeocollybia fallax Phaeocollybia fallax D Phaeocollybia fallax D Phaeocollybia gregaria	Hygrophorus vernalis	В
Leucogaster citrinus B Leucogaster microsporus B Macowanites chlorinosmus B Macowanites lymanensis B Macowanites mollis B Marsmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycena quinaultensis B Mycena tenax B Mythicomyces cornelpes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Cotavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Octavianina papyracea B Otidea Ieporina D Otidea snithii B Phaeocollybia attenuata D Phaeocollybia caliifornica B Phaeocollybia fallax D Phaeocollybia gregaria B	70 7	В
Leucogaster microsporus B Macowanites chlorinosmus B Macowanites lymanensis B Macowanites mollis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena verholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces cornelpes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Catavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia dissiliens B Phaeocollybia gregaria B		В
Macowanites chlorinosmus B Macowanites lymanensis B Macowanites mollis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Catavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia fallax D Phaeocollybia gregaria B		
Macowanites lymanensis B Macowanites mollis B Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Cotavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia caliifornica B Phaeocollybia fallax D Phaeocollybia gregaria B	0 1	
Macowanites mollis Marasmius applanatipes B Martellia fragrans Martellia idahoensis Mycena hudsoniana B Mycena quinaultensis Mycena quinaultensis Mycena tenax B Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii B Phaeocollybia attenuata Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia gregaria		
Marasmius applanatipes B Martellia fragrans B Martellia idahoensis B Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Cotavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia caliifornica B Phaeocollybia fallax D Phaeocollybia gregaria B		
Martellia fragrans Martellia idahoensis Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis Mycena tenax B Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii B Phaeocollybia attenuata Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia gregaria		
Martellia idahoensis Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis Mycena quinaultensis B Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Otidea leporina Otidea leporina D Otidea smithii B Phaeocollybia attenuata Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax Phaeocollybia gregaria		
Mycena hudsoniana B Mycena overholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Cotavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia fallax D Phaeocollybia gregaria B		
Mycena overholtsii D Mycena quinaultensis B Mycena tenax B Mythicomyces corneipes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, B In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Otidea leporina D Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia fallax D Phaeocollybia gregaria B	ıvıarella laanoensis	
Mycena quinaultensis Mycena tenax B Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora Catouianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata Phaeocollybia californica B Phaeocollybia fallax Phaeocollybia gregaria	Mygang bydganiana	
Mycena tenax B Mythicomyces corneipes B Neolentinus adhaerens B Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia fallax D Phaeocollybia fallax D Phaeocollybia gregaria	· ·	
Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii Bhaeocollybia attenuata Phaeocollybia californica Bhaeocollybia fallax Phaeocollybia gregaria	Mycena overholtsii	
Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea B Otidea leporina Otidea smithii B Phaeocollybia attenuata Phaeocollybia californica B Phaeocollybia fallax Phaeocollybia gregaria B Phaeocollybia gregaria	Mycena overholtsii Mycena quinaultensis	В
Neolentinus kauffmanii B Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax	B B
Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes	B B B
In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora B Octavianina papyracea B Otidea leporina Otidea smithii B Phaeocollybia attenuata Phaeocollybia californica B Phaeocollybia dissiliens Phaeocollybia fallax Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens	B B B
CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Octavianina papyracea B Otidea leporina Otidea smithii Phaeocollybia attenuata Phaeocollybia californica B Phaeocollybia dissiliens Phaeocollybia fallax Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens	B B B
Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) B Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum,	B B B B
Octavianina macrospora B Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and	B B B B
Octavianina papyracea B Otidea leporina D Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces	B B B B B
Otidea leporinaDOtidea smithiiBPhaeocollybia attenuataDPhaeocollybia californicaBPhaeocollybia dissiliensBPhaeocollybia fallaxDPhaeocollybia gregariaB	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502)	B B B B B B B
Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora	B B B B B B
Otidea smithii B Phaeocollybia attenuata D Phaeocollybia californica B Phaeocollybia dissiliens B Phaeocollybia fallax D Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora	B B B B B B
Phaeocollybia attenuataDPhaeocollybia californicaBPhaeocollybia dissiliensBPhaeocollybia fallaxDPhaeocollybia gregariaB	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea	B B B B B B B B B B B B B B B B B B B
Phaeocollybia californicaBPhaeocollybia dissiliensBPhaeocollybia fallaxDPhaeocollybia gregariaB	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina	B B B B B B B B D
Phaeocollybia dissiliensBPhaeocollybia fallaxDPhaeocollybia gregariaB	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii	B B B B B B B B B B B B B B B B B B B
Phaeocollybia fallax D Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii Phaeocollybia attenuata	B B B B B B B D B D
Phaeocollybia gregaria B	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii Phaeocollybia attenuata Phaeocollybia californica	B B B B B B B B D B D B
	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii Phaeocollybia attenuata Phaeocollybia californica Phaeocollybia dissiliens	B B B B B B B B B B B B B B B B B B B
	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii Phaeocollybia attenuata Phaeocollybia dissiliens Phaeocollybia fallax	B B B B B B B B B B B B B B D B B D B B D D B D D B D
	Mycena overholtsii Mycena quinaultensis Mycena tenax Mythicomyces corneipes Neolentinus adhaerens Neolentinus kauffmanii Nivatogastrium nubigenum, In entire range except OR Eastern Cascades and CA Cascades Physiographic Provinces Octavianina cyanescens (Octavianina sp. nov. #Trappe 7502) Octavianina macrospora Octavianina papyracea Otidea leporina Otidea smithii Phaeocollybia attenuata Phaeocollybia californica Phaeocollybia fallax Phaeocollybia fallax Phaeocollybia gregaria	B B B B B B D B B D B B B B B B B B B B

APPENDIX ONE

TAXA GROUP	
Species	Category
FUNGI (continued)	

Phonon ally later ally constant of the Constant	
Phaeocollybia olivacea, In Oregon	F
Phaeocollybia olivacea In Washington and California	E
Phaeocollybia oregonensis (syn. Phaeocollybia carmanahensis)	В
Phaeocollybia piceae	В
Phaeocollybia pseudofestiva	В
Phaeocollybia scatesiae	В
Phaeocollybia sipei	В
Phaeocollybia spadicea Phalladan atratum)	B
Phellodon atratus (Phellodon atratum)	B
Pholiota albivelata Podostroma alutaceum	B B
Polyozellus multiplex	В
Pseudaleuria quinaultiana	В
Ramaria abietina	В
Ramaria amyloidea	В
Ramaria araiospora	В
Ramaria aurantiisiccescens	В
Ramaria botryis var. aurantiiramosa	В
Ramaria celerivirescens	В
Ramaria claviramulata	В
Ramaria concolor f. marrii	В
Ramaria concolor f. tsugina	В
Ramaria conjunctipes var. sparsiramosa	В
(Ramaria fasciculata var. sparsiramosa)	В
Ramaria coulterae	В
Ramaria cyaneigranosa	В
Ramaria gelatiniaurantia	В
Ramaria gracilis	В
Ramaria hilaris var. olympiana	В
Ramaria largentii	В
Ramaria Iorithamnus	В
Ramaria maculatipes	В
Ramaria rainierensis	В
Ramaria rubella var. blanda	В
Ramaria rubribrunnescens	В
Ramaria rubrievanescens	B
Ramaria rubripermanens In Oregon	D B
Ramaria rubripermanens In Washington and California Ramaria spinulosa var. diminutiva (Ramaria spinulosa)	В
Ramaria spinaiosa vai: airriinariva (karnana spinaiosa) Ramaria stuntzii	В
Ramaria suecica	В
Ramaria thiersii	В
Ramaria verlotensis	В
Rhizopogon abietis	В
Rhizopogon atroviolaceus	В
Rhizopogon brunneiniger	В
Rhizopogon chamaleontinus (Rhizopogon sp. nov. #Trappe 9432)	В
Rhizopogon ellipsosporus (Alpova sp. nov. # Trappe 9730)	В
Rhizopogon evadens var. subalpinus	В
Rhizopogon exiguus	В
Rhizopogon flavofibrillosus	В
Rhizopogon inquinatus	В
Rhizopogon truncatus	D
Rhodocybe speciosa	В
Rickenella swartzii (Rickenella setipes)	В
Russula mustelina	В
Sarcodon fuscoindicus	В
Sedecula pulvinata	В
Sowerbyella rhenana (Aleuria rhenana)	В
Sparassis crispa	D
Spathularia flavida	В
Stagnicola perplexa	В
Thaxterogaster pavelekii	В
(Thaxterogaster sp. nov. #Trappe 4867, 6242, 7427, 7962, 8520)	В
Tremiscus helvelloides	D
Tricholoma venenatum	В
	В
Tricholomopsis fulvescens	
Tuber asa (Tuber sp. nov. #Trappe 2302)	В
	B B

TAXA GROUP	
Species	Category
LICHENS	

Bryoria pseudocapillaris	Α
Bryoria spiralifera	Α
Bryoria subcana	В
Buellia oidalea	Е
Calicium abietinum	В
Calicium adspersum	Е
Cetrelia cetrarioides	Е
Chaenotheca chrysocephala	В
Chaenotheca ferruginea	В
Chaenotheca furfuracea	F
Chaenotheca subroscida	Е
Chaenothecopsis pusilla	E
Cladonia norvegica	В
Collema nigrescens, In WA and OR, except in OR Klamath	F
Physiographic Province	•
Dendriscocaulon intricatulum, In CA	Е
Dendriscocaulon intricatulum, Rest of Oregon outside of	A
Coos, Curry, Douglas, Josephine & Jackson Counties; WA	, ,
Dermatocarpon luridum	Е
Heterodermia sitchensis	Ē
Hypogymnia duplicata	C
Hypogymnia vittata	E
Hypotrachyna revoluta	Ē
Leptogium burnetiae var. hirsutum	E
Leptogium cyanescens	A
Leptogium rivale	E
Leptogium teretiusculum	E
Lobaria linita, In WA WL, WA WC south of Snoqualmie Pass,	A
WA EC; OR; CA	А
Lobaria oregana, In California	Α
Microcalicium arenarium	B
Nephroma bellum, In OR; Klamath, Willamette Valley,	E
Eastern Cascades; WA; Western Cascades (outside GPNF), Eastern Cascades, Olympic Peninsula Physiographic Province	_
Nephroma isidiosum	Е
Nephroma occultum	Α
Niebla cephalota	Α
Pannaria rubiginosa	Е
Pannaria saubinetii	F
Peltigera pacifica	Е
Platismatia lacunosa, all except OR CR	Е
Pseudocyphellaria perpetua (Pseudocyphellaria sp. 1)	В
Pseudocyphellaria rainierensis	A
Ramalina thrausta	Α
Stenocybe clavata	E
Teloschistes flavicans	A
Tholurna dissimilis, south of Columbia River	В
Usnea hesperina	E
Usnea longissima, In California and in Curry, Josephine, and Jac	
Counties, Oregon	Δ
Usnea longissima, In Oregon, except in Curry, Josephine,	F
and Jackson Counties and in Washington	1

TAXA GROUP	
Species	Category
BRYOPHYTES	

Brotherella roellii	E
Buxbaumia viridis, In California	E
Diplophyllum plicatum	В
Herbertus aduncus	E
lwatsukiella leucotricha	В
Kurzia makinoana	В
Marsupella emarginata v. aquatica	В
Orthodontium gracile	В
Ptilidium californicum, In California	А
Racomitrium aquaticum	E
Rhizomnium nudum, In OR	В
Schistostega pennata	А
Tetraphis geniculata	А
Tritomaria exsectiformis	В
Tritomaria quinquedentata	В

APPENDIX ONE

TAXA GROUP Species	Category
VERTEBRATES	

Larch Mountain salamander Plethodon larselli	Α
Shasta salamander Hydromantes shastae	Α
Siskiyou Mountains salamander Plethodon stormi,	D1
In North Range	
Siskiyou Mountains salamander Plethodon stormi, In South Range	A
Van Dyke's salamander Plethodon vandykei,	Α
Cascade population only	
Great Gray Owl Strix nebulosa	Α
Oregon Red Tree Vole Arborimus longicaudus, In Central Range	D
Oregon Red Tree Vole Arborimus longicaudus,	С
Outside Central Range	

TAXA GROUP Species MOLLUSKS	Category
Ancotrema voyanum	E ^{3,4}
Cryptomastix devia	Α
Cryptomastix hendersoni	Α
Deroceras hesperium	B ⁴
Fluminicola n. sp. 3	A^2
Fluminicola n. sp. 11	A^2
Fluminicola n. sp. 14	Α
Fluminicola n. sp. 15	Α
Fluminicola n. sp. 16	Α
Fluminicola n. sp. 17	Α
Fluminicola n. sp. 18	Α
Fluminicola n. sp. 19	A^2
Fluminicola n. sp. 20	A^2
Fluminicola seminalis	A^2
Helminthoglypta talmadgei	D1
Hemphillia burringtoni	Е
Hemphillia glandulosa, In WA Western Cascades	Е
Physiographic Province	
Hemphillia malonei, Washington	С
Hemphillia pantherina	B ⁴
Juga (O.) n. sp. 2	Α
Juga (O.) n. sp. 3	Α
Lyogyrus n. sp. 1	А
Lyogyrus n. sp. 2	А
Lyogyrus n. sp. 3	Α
Megomphix hemphilli, South of south boundary of Lincoln, Benton, and Linn Counties, Oregon	F ⁵
Megomphix hemphilli, North of south boundary of Lincoln,	Α
Benton, and Linn Counties, Oregon	Α
Monadenia chaceana	B ⁴
Monadenia fidelis minor	Α
Monadenia infumata ochromphalus (syn. M. f. klamathica, M. ochromphalus, M. f. salmonensis)	f. B ^{3,4}
Monadenia troglodytes troglodytes	Α
Monadenia troglodytes wintu	A
Oreohelix n. sp.	A
Pristiloma arcticum crateris	A ²
Prophysaon coeruleum, In California and Washington	A
Trilobopsis roperi	A
Trilobopsis tehamana	A
Vertigo n. sp.	A
Vespericola pressleyi	A
Vespericola shasta	A
volponocia unaura	

TAXA GROUP	
Species	Category
VASCULAR PLANTS	

Arceuthobium tsugense mertensianae, In Washington only	F
Bensoniella oregana, In California only	Α
Botrychium minganense, In Oregon and California	Α
Botrychium montanum	Α
Coptis asplenifolia	Α
Coptis trifolia	Α
Corydalis aquae-gelidae	Α

TAXA GROUP Species	Category
VASCULAR PLANTS (continued)	Culegoly

Cypripedium fasciculatum, WA outside Eastern Cascades; OR;	CAC
	CAC
Cypripedium montanum, Entire range except Washington	С
Eastern Cascades Physiographic Province	С
Eucephalus vialis (syn. Aster vialis)	А
Galium kamtschaticum, Olympic Peninsula, WA Eastern	Α
Cascades, OR & WA Western Cascades Physiographic	
Provinces, south of Snoqualmie Pass	Α
Platanthera orbiculata var. orbiculata (syn. Habenaria orbicula	ta) C

TAXA GROUP Species	Category
ARTHROPODS	

Canopy herbivores (south range)	F
Coarse wood chewers (south range)	F
Litter and soil dwelling species (south range)	F
Understory and forest gap herbivores (south range)	F

FOOTNOTES

- Although Pre-Disturbance Surveys are deemed practical for these species, continuing pre-disturbance surveys is not necessary in order to meet management objectives.
- For these species, until Management Recommendations are written, the following language will be considered part of the Management Recommendation: Known and newly discovered sites of these species will be protected from grazing by all practical steps to ensure that the local population of the species will not be impacted.
- For these species, until Management Recommendations are written, the language known and newly discovered sites of these species will be protected from grazing by all practical steps to ensure that the local population of the species will not be impacted is the Management Recommendation and no other recommendations are imposed at this time.
- 4 Based upon direction contained in the ROD, equivalent-effort pre-disturbance surveys are required for these mollusk species.
- Based upon direction contained in the ROD, this one mollusk specie requires management of sites known as of 9/30/99.

Vorticifex n. sp. 1

APPENDIX TWO

Table 2-1 provides a listing of species that lacked Management Recommendations (MRs) when the Survey and Manage 2001 Record of Decision and Standards and Guidelines were signed, an update on MR status and needs based on the results of the findings of the 2002 Annual Species Review and status of MRs as an adaptive management approach to meeting the needs of the National Fire Plan. Status is categorized by the following: ND = "no draft"

RV = "current MR, but revision in process"

IR = "draft, in review"

FP = "draft, final pending"

DO = "done"

Where a year is identified in the "Status" column, the year is the date of MR completion (these species were misidentifed as needing MRs in the 2003 Annual Status Report).

National Fire Plan MRs are typed as:
WUI = "Fire and Fuels Treatments for Communities at Risk"
EXP = "Fuel Hazard Reduction Treatment MRs in short fire return interval areas not associated with communities at risk (Expanded fire MRs)".

FUNGI						
Known Site MR (A,B,E and some		High Priority Site MR		Natio	nal Fire Plan MRs	
C&D species)	Status	(C&D species)	Status	Туре	Species	Status
Albatrellus ellisii	FP	Cantharellus subalbidus, In Washington and California	ND	WUI	Cantharellus subalbidus	DO
Albatrellus flettii, In WA and CA	FP	Chalciporus piperatus (Boletus piperatus)	ND	WUI	Clavariadelphus occidentalis (Clavariadelphus pistillaris)	DO
Asterophora lycoperdoides	FP	Clavariadelphus truncatus (syn. Clavariadelphus borealis)	ND	WUI	Clavariadelphus sachalinensis	DO
Asterophora parasitica	FP	Craterellus tubaeformis (syn. Cantharellus tubaeformis), In Washington and California	ND	WUI	Gomphus bonarii	DO
Baeospora myriadophylla	FP	Mycena overholtsii	ND	WUI	Gomphus clavatus	DO
Cantharellus subalbidus, In WA and CA	FP	Otidea leporine	ND	WUI	Gomphus kauffmanii	DO
Catathelasma ventricosa	FP	Phaeocollybia attentuata	ND	WUI	Mycena overholtsii	DO
Chalciporus piperatus (Boletus piperatus)	FP	Phaeocollybia fallax	ND	WUI	Otidea leporine	DO
Chrysomphalina grossula	FP	Phaeocollybia kauffmanii	ND	WUI	Ramaria rubrioermanens	DO
Clavariadelphus ligula	FP	Ramaria rubrioermanens, In OR	ND	WUI	Sowerbyella rhenana	DO
Clavariadelphus occidentalis (Clavariadelphus pistillaris)	FP	Rhizopogon truncatus	ND	WUI	Spathularia flavida	DO
Clavariadelphus sachalinensis	FP	Sparassis crispa	ND	WUI	Tremiscus helvelloides	DO
Clavariadelphus subfastigiatus	FP	Tremiscus helvelloides	ND			
Clavariadelphus truncatus (syn. Clavariadelphus borealis)	FP					
Clavulina castanopes v. lignicola (Clavulina ornatipes)	FP					
Collybia racemosa	FP					
Cordyceps ophioglossoides	FP					

FUNGI						
Known Site MR (A,B,E and some		High Priority Site MR		Natio	nal Fire Plan MRs	
C&D species)	Status	(C&D species)	Status	Туре	Species	Status
Cortinarius barlowensis (syn. Cortinarius azureus)	FP					
Cortinarius cyanites	FP					
Cortinarius depauperatus (Cortinarius spilomeus)	FP					
Cortinarius speciosissimus (Cortinarius rainierensis)	ND					
Cortinarius tabularis	ND					
Cortinarius valgus	FP					
Craterellus tubaeformis (syn. Cantharellus tubaeformis), In WA and CA	FP					
Cudonia monticola	FP					
Cyphellostereum leave	FP					
Fayodia bisphaerigera (Fayodia gracilipes)	FP					
Galerina atkinsoniana	FP					
Galerina cerina	FP					
Galerina heterocystis	FP					
Galerina sphagnicola	FP					
Gastroboletus turbinatus	FP					
Gomphus bonarii	FP					
Gomphus kauffmanii	FP					
Gyromitra californica	FP					
Hydropus marginellus (Mycena marginella)	FP					
Hygrophorus caeruleus	1997					

APPENDIX TWO

FUNGI						
Known Site MR (A,B,E and some		Lligh Priority Site MD		National Fire Plan MRs		
C&D species)		Status	Туре	Species	Status	
Hygrophorus karstenii (Hygrophorus saxatilis)	FP					
Hypomyces Iuteovirens	FP					
Mycena tenax	FP					
Mythicomyces corneipes	FP					
Octavianina papyracaea	1997					
Phaeocollybia attenuata	FP					
Phaeocollybia fallax	FP					
Phaeocollybia kauffmanii	1997					
Phaeocollybia olivacea In WA and CA	FP					
Phaeocollybia pseudofestiva	FP					
Phaeocollybia spadicea	FP					
Phellodon atratus (Phellodon atratum)	FP					
Podostroma alutaceum	FP					
Ramaria abietina	FP					
Ramaria concolor f. tsugina	FP					
Ramaria coulterae	FP					
Ramaria suecica	FP					
Rhizopogon abietis	FP					
Rhizopogon atroviolaceus	FP			_		
Rhizopogon truncates	FP					
Rickenella swartzii (Rickenella setipes)	FP					
Russula mustelina	FP					
Sarcodon fuscoindicus	FP					
Sparassis crispa	FP					
Spathularia flavida	FP					
Stagnicola perplexa	FP					
Tremiscus helvelloides	FP					

BRYOPHYTES Known Site MR				National Fire Plan MRs		
(A,B,E and some C&D species)	Status	High Priority Site MR (C&D species)	Status	Туре	Species	Status
Buxbaumia viridis In CA	RV	No Category C or D species		WUI	Ptilidium californicum In CA	DO
lwatsukiella leucotricha	RV			WUI	Schistostega pennata	DO
Ptilidium californicum In CA	RV			WUI	Tetraphis geniculata	DO
Rhizomnium nudum In OR	RV					
Schistostega pennata	RV					
Tetraphis geniculata	RV					
Tritomaira quinquedentata	RV					
LICHENS						

Known Site MR				National Fire Plan MRs		
(A,B,E and some C&D species)	Status	High Priority Site MR (C&D species)	Status	Туре	Species	Status
O all a large	NID	11) A // II	D	D0
Calicium abietinum	ND	Hypogymnia duplicata		WUI	Dendriscocaulo n intricatulum	DO
Calicium adspersum	ND			WUI	Peltigera pacifica	DO
Cetrelia cetrarioides	ND			WUI	Ramalina thrausta	DO
Chaenotheca chrysocephala	ND			WUI	Usnea Iongissima	DO
Chaenotheca ferruginea	ND					
Chaenotheca furfuracea						
Chaenotheca subroscida	ND					
Chaenothecops is pusilla	ND					
Cladonia norvegica	IR					
Collema nigrescens In WA and OR, except in OR Klamath Physiographic Province						
Heterodermia sitchensis						
Hypogymnia vittata	ND					
Hypotrachyna revoluta	ND					
Leptogium burnetiae var. hirsutum	ND					
Leptogium cyanescens	IR					
Leptogium teretiusculum	IR					
Lobaria oregana, In CA	IR					
Microcalicium arenarium	ND					

APPENDIX TWO

VERTERBRATES

LICHENS Known Site MR				Natio	nal Fire Plan MRs	
(A,B,E and some C&D species)	Status	High Priority Site MR (C&D species)	Status	Туре	Species	Status
Nephroma bellum In OR; Klamath, Willamette Valley, Eastern Cascades; WA; Western Cascades (outside GPNF), Eastern Cascades, Olympic Peninsula Physiographic Provinces	ND					
Nephroma isidiosum	ND					
Nephroma occultum	IR					
Pannaria saubinetii						
Peltigera pacifica	IR					
Platismatia lacunosa all except OR CR	ND					
Ramalina thrausta	IR					
Stenocybe clavata	ND					
Usnea longissima, In CA and in Curry, Josephine, and Jackson Counties, OR	IR					

MOLLUSKS Known Site MR (A.B.E and some		High Priority Site MR		National Fire Plan MRs		
C&D species)	Status		Status	Туре	Species	Status
complete for all species	DO	Helminthoglypta talmadgei	IR	WUI EXP	Helminthoglypta talmadgei	DO FP
		Hemphillia malonei, In WA	IR	WUI	Megomphix hemphilli	
				WUI	Monadenia chaceana	
				WUI	Monadenia fidelis minor	
				WUI	Monadenia troglodytes troglodytes	
				WUI	Monadenia troglodytes wintu	
				WUI	Oreohelix n. sp., Pristiloma arcticum crateris	
				WUI	Prophysaon coeruleum, In CA	
				WUI	Vespericola shasta	

VASCULAR PLANTS Known Site MR (A,B,E and some		High Priority Site MR		Natio	nal Fire Plan MRs	
C&D species)	Status	(C&D species)	Status	Туре	Species	Status
complete for all species	DO	Cypripedium fasciculatum, WA outside Eastern Cascades; OR; CA	IR	WUI	Cypripedium fasciculatum, WA outside Eastern Cascades; OR; CA	DO FP
		Cypripedium montanum, Entire range except Washington Eastern Cascades Physiographic Province	ND	WUI EXP	Eucephalus vialis (syn. Aster vialis)	DO FP
		Platanthera orbiculata var. orbiculata (syn. Habenaria orbiculata)	ND	WUI EXP	Botrychium montanum	DO FP

VERTER DIO (120						
Known Site MR (A.B.E and some		High Priority Site MR		National Fire Plan MRs		
C&D species)	Status		Status	Туре	Species	Status
Amphibians						
Hydromantes shastae (Shasta salamander)	ND	Plethodon stormii, In north range	ND	WUI EXP	Hydromantes shastae	DO FP
Plethodon larselii (Larch Mountain salamander)	ND			WUI EXP	Plethodon stormii	DO FP
Plethodon stormii, In south range (Siskiyou Mountain Salamander)	ND					
Plethodon vandykei (Van Dykeís Salamander)	ND					
Birds						
Strix nebulosa (Great Gray Owl)	ND	Not Applicable, Category A species		WUI	Strix nebulosa (Great Gray Owl)	IRa
Mammals						
Complete, 9/2000 currently Category C & D species	DO	Arborimus longicaudus (Red Tree Vole)	NDb	WUI EXP	Arborimus longicaudus (Red Tree Vole)	DO FP

Draft MR exceeded current direction in 2001 Standards and Guidelines.
 Supplemental direction for a programmatic process for the identification of Non High Piroirity Sites was developed and released while development of the High Priority Site MR continues.

CONTACT INFORMATION

Survey and Manage Contacts

Interagency Program Leader Terry Brumley tbrumley@fs.fed.us USDA Forest Service 333 SW First Avenue, P.O. Box 3623, Portland, OR 97208-3623 503-808-2968

Strategic Survey Coordinator Bruce Rittenhouse brittenhouse@fs.fed.us Bureau of Land Management, Portland, OR 503-808-2984

Mitigation Coordinator (Annual Species Review) Russell Holmes r1holmes@or.blm.gov Bureau of Land Management, Portland, OR 503-808-6536

Conservation Coordinator Vacant

Mathematical Statistician Marianne Turley mturley@fs.fed.us Bureau of Land Management, Portland, OR 503-808-2990

ISMS Team Leader Janis Van Wyhe jvanwyhe@or.blm.gov Bureau of Land Management, Portland, OR 503-808-6296

Taxa Team Leads and Experts

Amphibians

Expert: Dede Olsen, Pacific Northwest Research Station, Corvallis, OR 541-750-7373 dedeolson@fs.fed.us
Lead: Dave Clayton, US Fish and Wildlife Service,
Roseburg, OR 541-957-3479 dave_clayton@fws.gov

Arthropods

Expert: Nancy Gillette, Pacific Southwest Research Station, Albany, CA 510-559-6474 ngillette@fs.fed.us

Lead: Kathleen Cushman, USDA Forest Service

Chemult, OR 541-365-7063 kcushman@fs.fed.us

Bats

Expert: Ted Weller, Pacific Southwest Research Station, Arcata, CA 707-825-2991 tweller@fs.fed.us
Lead: Pat Ormsbee, USDA Forest Service, Eugene, OR 541-465-6318 pormsbee@fs.fed.us

Bryophytes

Expert: Judy Harpel, USDA Forest Service, Vancouver, WA, 360-891-5121 jharpel@fs.fed.us

Lead: Richard Helliwell, USDA Forest Service, Roseburg, OR, 541-957-3337 rhelliwell@fs.fed.us

Fungi

Expert: Tina Dreisbach, Pacific Northwest Research Station, Corvallis, OR 541-750-7404 tdreisbach@fs.fed.us

Lead: Kathleen Cushman, USDA Forest Service, Chemult, OR, 541-365-7063 kcushman@fs.fed.us

Great Grey Owl

Expert: Richard Gerhardt, Sage Science Incorporated, Bend, OR, 541-475-4330 rgerhardt@madras.net

Lead: Debra Quintana-Coyer, USDA Forest Service, Westfir, OR, 541-782-5335, dquintanacoyer@fs.fed.us

Lichens

Expert: Chiska Derr, USDA Forest Service, Amboy, WA, 360-449-7853, cderr@fs.fed.us

Lead: Marty Stein, USDA Forest Service, Sandy, OR, 503-668-1764 mstein@fs.fed.us

Mollusks

Expert: Paul Hohenlohe, Pacific Northwest Research Station, Corvallis, OR, 541-750-7403, paul_hohenlohe@blm.gov Lead: Nancy Duncan, Bureau of Land Management, Roseburg, OR 541-464-3338 Nancy_Duncan@or.blm.gov

Red Tree Vole

Expert: Brian Biswell, Pacific Northwest Research Station, Olympia, WA 360-753-7695 bbiswell@fs.fed.us Lead: Laura Finley, US Fish and Wildlife Service, Yreka, CA, 530-842-5763 laura_finley@fws.gov

Vascular Plants

Expert: Nan Vance, Pacific Northwest Research Station, Corvallis, OR 541-750-7302 nvance@fs.fed.us Lead: Lucile Housley, Bureau of Land Management, Lakeview, OR 541-947-6131 lucile_housley@blm.gov

Agency Representatives

Rob Huff, Bureau of Land Management, Portland, OR, 503-808-6479 rob_huff@or.blm.gov

Carol S. Hughes, USDA Forest Service Region 6, Portland, OR, 503-808-2661 cshughes@fs.fed.us

Paula Crumpton, USDA Forest Service, Region 5, Redding, CA, 530-242-2242 pcrumpton@fs.fed.us

Barbara Amidon, US Fish and Wildlife Service, Portland, OR, 503-872-2825 barbara_amidon@fws.gov

If you would like to be put on a mailing list to receive this report, please contact:

Interagency Survey and Manage Program Manager c/o Regional Ecosystem Office P.O. Box 3623, Portland, OR 97208-3623